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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/530,003	04/21/2000	HARRY ZSCHEEG	A0008/7000	8603
22832	7590 02/25/2004		EXAMINER	
	CICK & LOCKHART	WOO, JULIAN W		
75 STATE STREET BOSTON, MA 02109-1808			ART UNIT	PAPER NUMBER
			3731	
			DATE MAIL ED: 02/25/200	4

Please find below and/or attached an Office communication concerning this application or proceeding.

-		Application No.	Applicant(s)			
Offic Action Summary						
		09/530,003	ZSCHEEG, HARRY			
	ome Action Cummary	Examiner	Art Unit			
	The MAILING DATE of this communication app	Julian W. Woo ears on the cover sheet with the c	3731			
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status						
1)⊠	Responsive to communication(s) filed on <u>22 December 2003</u> .					
2a)[]	This action is FINAL . 2b)⊠ Thi	s action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
•	☐ Claim(s) 1,3-13,19-22 and 27-45 is/are pending in the application.					
	4a) Of the above claim(s) <u>12,13,19-22 and 31-45</u> is/are withdrawn from consideration. Claim(s) is/are allowed.					
•						
•	6) Claim(s) 1,3-11 and 27-30 is/are rejected.					
•	7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement. Application Papers						
9)⊠ The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>21 April 2000</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12)☐ The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)[⊠ All b) ☐ Some * c) ☐ None of:					
	1. Certified copies of the priority documents have been received.					
	2. Certified copies of the priority documents have been received in Application No					
* 5	3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
1) Notic	te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal	y (PTO-413) Paper No(s) Patent Application (PTO-152)			

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on December 22, 2003 has been entered.

Specification

2. The disclosure is objected to because of the following informality: On pages 3, 6, and 7, references to the claims, in the "Summary of the Invention," should be deleted, since the invention should be independently described before claims are made.

Appropriate correction is required.

Drawings

3. Figures 1 and 2 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

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Claim Rejections - 35 USC § 112

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

5. Claims 30 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. With respect to claim 30, line 1, "A process" lacks antecedent basis.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 7. Claims 1, 3, 8-10, and 27-29 are rejected under 35 U.S.C. 102(b) as being anticipated by Lau et al. (5,514,154). With respect to claims 1 and 3, Lau et al. disclose in figures 1-5, 13, and 14 and in col. 6, line 61 to col. 7, line 24 and col. 6, lines 8-34, a self-expandable stent (10) with an elastic tubular lattice structure having first and second end zones, a longitudinal direction, a radial direction, wall segments with intersections (at 13), and wall segments with interrupted intersections (at portions of 12)

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and radially-outward projecting portions (34), where the stent is elastically expandable from a compressed, reduced diameter delivery configuration toward a relaxed, resiliently expanded configuration. With respect to claims 8-10, col. 6, lines 61-63 disclose that the stent consists of a metallic, shape memory alloy or a nickel-titanium alloy. With respect to claims 27-29, col. 4, lines 30-64 disclose a delivery system with a balloon dilation catheter applied with the Seldinger technique.

Claim Rejections - 35 USC § 103

- 8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

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- Claims 4, 5, 11, and 30 are rejected under 35 U.S.C. 103(a) as being 9. unpatentable over Lau et al. Lau et al. disclose the stent and stent delivery system substantially as claimed, but do not disclose stent wall intersections interrupted at substantially two thirds of all intersections, aperture widths of maximally 9 mm when the stent is expanded, and alloy moieties as claimed. However, Lau et al. discloses in col. 3, lines 5-15, that the number of elements (13) interconnecting adjacent cylindrical elements (12) can be varied, and by inference, the number of interrupted intersections can be varied. Also, Lau et al. disclose, in col. 5, lines 23-28, that cylindrical elements can be closely spaced at regular intervals, but do not disclose aperture widths. Lau et al. disclose, in col. 2, lines 42-56 and in col. 7, lines 12-24, nickel-titanium alloys for use in a stent, but do not disclose the moieties. Nevertheless, it would have been a matter of design choice to one of ordinary skill in the art at the time the invention was made, to configure the stent as claimed and manufacture a stent with alloy moieties as claimed. Stent wall intersections interrupted at substantially two thirds of all intersections can be chosen depending upon the desired longitudinal flexibility of the stent. An aperture width can be chosen according to the support required for a vessel wall or its flaps or dissections. The moiety of a nickel-titanium alloy can be chosen to achieve a desired elasticity for the reversible transformation of a stent from the deformed or compressed state to the expanded state.
- 10. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lau et al. in view of Fogarty et al. (EP 792627). Lau et al. disclose the stent substantially as claimed, but do not disclose a wall thickness between 0.2 mm and 0.3 mm. Fogarty et

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al. teach, in col. 10, lines 14-18, a stent with a wall thickness between about 0.1 mm

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and 0.5 mm. It would have been obvious to one having ordinary skill in the art, at the

time the invention was made, in view of Fogarty et al., to modify the stent of Lau et al.,

so that it has a wall thickness within the range as claimed. Such a stent would have the

mechanical strength for reinforcing an aortic aneurysm.

Response to Amendment

11. See the rejections above.

Conclusion

12. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Julian W. Woo whose telephone number is (703) 308-

0421. The examiner can normally be reached Mon.-Fri., 7:00 AM to 3:00 PM Eastern

Time, alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Michael J. Milano can be reached at (703) 308-2496.

General inquiries relating to the status of this application should be directed to

the Group receptionist at (703)308-0858. The FAX number is (703)872-9306.

Julian W. Woo

Primary Examiner

Juhan W. Moo

February 23, 2004